

# ABSTRACT

A scanning head for an optical position-measuring system includes a receiver grating, formed of photosensitive areas, for the scanning of locally intensity-modulated light of  
5 differing wavelengths. The receiver grating is formed from a semiconductor layer stack of a doped p-layer, an intrinsic i-layer and a doped n-layer. The individual photosensitive areas have a first doped layer and at least a part of the intrinsic layer in common and are electrically separated from  
10 one another by interruptions in the second doped layer.